CH2MHILL • BWXT West Valley, LLC

West Valley Demonstration Project

Ms. Jennifer Splitt, Contracting Officer U. S. Department of Energy 550 Main St., Room 7-010 Cincinnati, OH 45202 AC-PRES WD:2023:0459 June 15, 2023

ATTENTION: Jennifer Dundas

SUBJECT: Contract No. DE-EM0001529, Section J-3, Item 127, State Pollutant Discharge Elimination

System (SPDES) Discharge Monitoring Report (DMR) for the Period May 1 through

May 31, 2023

Dear Ms. Splitt

This letter is submitted for Contracting Officer Representative's approval to inform you that the SPDES DMR for the reporting period May 1 through May 31, 2023 has been submitted electronically. A copy of this submittal is attached as well as a copy of the email confirmation from the New York State Department of Environmental Conservation (NYSDEC).

If you have any questions, please contact William Kean at (716) 942-4865 or Elizabeth Lowes at (716) 481-0429.

Sincerely,

Approval Obtained Electronically

John D. Rendall President & General Manager

JDR:WNK:bnj

Attachment: A) SPDES DMR for May 1, 2023 through May 31, 2023

B) Email Confirmation from NYSDEC

cc: B. C. Bower, DOE-WVDP

S. A. Cherry, CHBWV

C. Chun, CHBWV

L. K. Hollfelder, CHBWV

W. N. Kean, CHBWV

D. P. Klenk, CHBWV

E. A. Lowes, CHBWV

D. M. Martinet, CHBWV

J. K. Mantione, CHBWV

J. T. Pillittere, CHBWV (Public Reading Room)

R. E. Steiner, CHBWV

K. A. Wooley, CHBWV

Letter Log (B. Jeffery), CHBWV

CHBWV OITS #2230560

Attachment A SPDES DMR

ATTACHMENT A

SPDES DISCHARGE MONITORING REPORT - MAY 1 THROUGH MAY 31, 2023 NET IRON EFFLUENT CONCENTRATION CALCULATION WEST VALLEY DEMONSTRATION PROJECT, SPDES PERMIT NO. NY-0000973

OUTFALL 001 =
$$M1 = (X1 + X2) V1$$
 = 781480.03 mg/month

X1 = 0.102 mg/L

X2 = 0.117 mg/L

V1 = 7136803.89 L/month

OUTFALL 007 =
$$M7 = (X1 + X2) V7 = 0.00 mg/month$$

X1 = 0.00 mg/L

X2 = 0.00 mg/L

V7 = 0.00 L/month

Note: There was no discharge from outfall 007 during this monitoring period.

RAW WATER =
$$MRW = \frac{(X1 + X2 + X3 + X4) \text{ VRW}}{4} = 0.00 \text{ mg/month}$$

 $X1 = 0.00 \text{ mg/L}$
 $X2 = 0.00 \text{ mg/L}$
 $X3 = 0.00 \text{ mg/L}$
 $X4 = 0.00 \text{ mg/L}$
 $X4 = 0.00 \text{ mg/L}$

Note: Raw water from the reservoir system is no longer used for process water since the site installed two groundwater wells. This eliminated the need to collect raw water samples on a weekly basis and altered the iron discharge concentration equation as the mass of iron entering the system is no longer necessary.

IRON DISCHARGE CONCENTRATION =
$$\frac{M1 + M7 - MRW}{V1 + V7}$$
 = 0.11 mg/L

ATTACHMENT A (Cont'd)

SPDES DISCHARGE MONITORING REPORT - MAY 1 THROUGH MAY 31, 2023

TOTAL DISSOLVED SOLIDS (TDS) CONCENTRATION CALCULATION - MONITORING POINT 116

WEST VALLEY DEMONSTRATION PROJECT, SPDES PERMIT No. NY-0000973

Date: May 17, 2023

- C4 = ((Q1)(C1) + (Q2)(C2) + (Q3)(C3))/Q4
 - = ((0.234 MGD) (716 mg/L) + (0.0824 MGD) (158 mg/L) + (0.432 MGD) (104 mg/L)) / (0.748 MGD)
 - = 301 mg/L

Date: May 24, 2023

- C4 = ((Q1)(C1) + (Q2)(C2) + (Q3)(C3))/Q4
 - = ((0.234 MGD)(700 mg/L)+(0.0416 MGD)(177 mg/L)+(0.432 MGD)(106 mg/L))/(0.707 MGD)
 - = 307 mg/L
- Q1 = Flow at Outfall 001, million gallons per day (MGD).
- C1 = Total Dissolved Solids (TDS) concentration at Outfall 001, mg/L.
- Q2 = Flow in Franks Creek, MGD (without Outfall 001), measured at WNSP006 just prior to, and shortly after the discharge event.
- C2 = TDS concentration in Franks Creek measured at WNSP006 just prior to, and shortly after the discharge event.
- Q3 = Flow of augmentation water, MGD, if required.
- C3 = TDS concentration in augmentation water, MGD.
- Q4 = Q1 + Q2 + Q3, MGD (Flow in Franks Creek, including Outfall 001).
- C4 <= 500 mg/L (calculated TDS concentration at 116 in Franks Creek, which includes Outfall 001).

Permit

Permit #: NY0000973

001

External Outfall

Permittee: U.S. DEPT OF ENERGY

Discharge:

Major: Yes Permittee Address: 1000

1000 INDEPENDENCE AVE SW

WASHINGTON, DC 20585

001-M

OUTFALL 001 MONTHLY PROC WW, GW, STORM

Facility:

Facility Location:

WEST VALLEY DEMONSTRATION PROJ

10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799

Report Dates & Status

Permitted Feature:

Monitoring Period: From 05/01/23 to 05/31/23 DMR Due Date: 06/28/23 Status: NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name: Bryan C. Title: Director, USDOE-WVDP Telephone: 716-942-4368

Last Name: Bower

No Data Indicator (NODI)

	Parameter	Monitoring Location	Season	n # Param. NODI			Q	uantity or Load	ing				Quality or Concer	tration		# o	f Ex. Frequency of Analysis	Sample Typ
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units Qualifier 1	Value 1			Qualifier 3	Value 3	Units		
					Sample							=	47.0			19 - mg/L	01/BA - Once Per Batch	24 - COMP2
00154	Sulfate [as S]	1 - Effluent Gross	0		Permit Req.								Req Mon MO AVO	i	Req Mon DAILY MX	19 - mg/L 0	01/BA - Once Per Batch	24 - COMP2
					Value NODI	ı												
					Sample							<	5.22	=	5.39	19 - mg/L	02/BA - Twice Per Batch	CA - CALCT
00181	Oxygen demand, ultimate	1 - Effluent Gross	0		Permit Req.								Req Mon MO AVO			19 - mg/L		
0101	Oxygen demand, ditimate	1 - Ellidelit Gloss	U		Value NODI													
											8.4				10.0	40	02/BA - Twice Per Batch	CD CDAD
			_		Sample Permit Req.						3.0 MINIMUI	И			Req Mon MAXIMUM	19 - mg/L		
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0							f-	0.0 10111 1111101	**			rtoq mon wa atmom	0	OZ/B/C TWIOOT OF Baton	OIL OILLE
					Value NODI													
					Sample								2.1			19 - mg/L	02/BA - Twice Per Batch	
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0		Permit Req.								Req Mon MO AVO	i <=	10.0 DAILY MX	19 - mg/L 0	02/BA - Twice Per Batch	24 - COMP2
					Value NODI													
					Sample					=	8.1			=	8.1	12 - SU	01/BA - Once Per Batch	GR - GRAB
00400	На	1 - Effluent Gross	0		Permit Req.					>=	6.5 MINIMUI	И		<=	8.5 MAXIMUM	12 - SU 0	01/BA - Once Per Batch	GR - GRAB
	F				Value NODI													
					Sample							<	4.0	<	4.0	19 - mg/L	02/BA - Twice Per Batch	24 - COMP2
		4 500	_		Permit Req.							<=	30.0 MO AVG			19 - mg/L		
00530	Solids, total suspended	1 - Effluent Gross	U		Value NODI											0		
					Sample							<	0.1			25 - mL/L	02/BA - Twice Per Batch	
00545	Solids, settleable	1 - Effluent Gross	0		Permit Req.								Req Mon MO AVO	i <=	0.3 DAILY MX	25 - mL/L 0	02/BA - Twice Per Batch	GR - GRAB
					Value NODI													
					Sample							<	1.6	<	1.6	19 - mg/L	01/BA - Once Per Batch	GR - GRAB
00556	Oil & Grease	1 - Effluent Gross	0		Permit Req.								Req Mon MO AVO	i <=	15.0 DAILY MX	19 - mg/L ₀	01/BA - Once Per Batch	GR - GRAB
					Value NODI													
					Sample							<	0.02	<	0.02	19 - mg/L	01/BA - Once Per Batch	24 - COMP2
00045	Nitrogram mituita tatal Foo NI	1 - Effluent Gross	_		Permit Req.								Req Mon MO AVO			19 - mg/L 0		
00015	Nitrogen, nitrite total [as N]	1 - Elliuent Gross	U		Value NODI											0		
					Sample											19 - mg/L	01/BA - Once Per Batch	
00620	Nitrogen, nitrate total [as N]	1 - Effluent Gross	0		Permit Req.								Req Mon MO AVO	1	Req Mon DAILY MX	19 - mg/L 0	01/BA - Once Per Batch	24 - COMP2
					Value NODI													
					Sample							=	0.47	=	0.49	19 - mg/L	02/BA - Twice Per Batch	24 - COMP2
00625	Nitrogen, Kjeldahl, total [as N]	1 - Effluent Gross	0		Permit Req.								Req Mon MO AVO	i	Req Mon DAILY MX	19 - mg/L 0	02/BA - Twice Per Batch	24 - COMP2
					Value NODI													
					Sample							<	0.03	<	0.03	19 - mg/L	01/BA - Once Per Batch	24 - COMP2
00746	Sulfide disselved [ee S]	1 Effluent Crass	0		Permit Req.								Req Mon MO AVO			19 - mg/L		
JU140	Sulfide, dissolved, [as S]	1 - Effluent Gross	U		Value NODI											J 0		
																	2/21 2 2 - :	
					Sample							=	0.00085			19 - mg/L	01/BA - Once Per Batch	
00978	Arsenic, total recoverable	1 - Effluent Gross	0		Permit Req.								Req Mon MO AVO	<=	0.15 DAILY MX	19 - mg/L 0	01/BA - Once Per Batch	24 - COMP2
					Value NODI													

				Sample				<	0.0006 <	0.0006	19 - mg/L	01/BA - Once Per Batch GR - GRAB
Cobalt, total recoverable	1 - Effluent Gross	0		Permit Req.					Req Mon MO AVG <=	0.005 DAILY MX	19 - mg/L 0	01/BA - Once Per Batch GR - GRAB
, , , , , , , , , , , , , , , , , , , ,				Value NODI								
				Sample				<	0.0004 <			01/BA - Once Per Batch GR - GRAB
Selenium, total recoverable	1 - Effluent Gross	0		Permit Req.					Req Mon MO AVG <=	0.004 DAILY MX	19 - mg/L 0	01/BA - Once Per Batch GR - GRAB
				Value NODI								
				Sample				=	0.11 =	0.117	19 - mg/L	02/BA - Twice Per Batch 24 - COMP2
Iron, total [as Fe]	1 - Effluent Gross	0		Permit Req.					Req Mon MO AVG	Req Mon DAILY MX	19 - mg/L 0	02/BA - Twice Per Batch 24 - COMP2
,				Value NODI								
				Sample				<	0.06 <	0.06	19 - mg/L	01/BA - Once Per Batch 24 - COMP2
Aluminum, total [as Al]	1 - Effluent Gross	0		Permit Req.				<=	2.0 MO AVG <=	4.0 DAILY MX	19 - mg/L ₀	01/BA - Once Per Batch 24 - COMP2
[]				Value NODI								
				Sample				<	0.0015 <	0.0015	19 - mg/L	01/BA - Once Per Batch GR - GRAB
Vanadium, total recoverable	1 - Effluent Gross	0		Permit Req.					Req Mon MO AVG <=	0.014 DAILY MX	19 - mg/L ₀	01/BA - Once Per Batch GR - GRAB
variation, total receive able	. Lindon Grood			Value NODI								
				Sample				<	0.009 <	0.009	19 - mg/L	02/BA - Twice Per Batch 24 - COMP2-
Nitrogen ammonia total (as NH3)	1 - Effluent Gross	0		Permit Req.				<=	1.5 MO AVG <=	2.1 DAILY MX	19 - mg/L _O	02/BA - Twice Per Batch 24 - COMP2
run ogon, ammorna, total [ao runo]				Value NODI								
				Sample =	0.234 =	0.291	03 - MGD					02/BA - Twice Per Batch CN - CONTII
Flow in conduit or thru treatment plant	1 - Effluent Gross	0		Permit Req.	Req Mon MO AVG	Req Mon DAILY M	X 03 - MGD				0	02/BA - Twice Per Batch CN - CONTII
,, consum or unit accumion praint				Value NODI								
				Sample								
				Gampic				=	0.03 =	0.03	19 - mg/L	01/BA - Once Per Batch GR - GRAB
Chlorine total residual	1 - Effluent Gross	0		Permit Req.				=	0.03 = Req Mon MO AVG <=			01/BA - Once Per Batch GR - GRAB 01/BA - Once Per Batch GR - GRAB
Chlorine, total residual	1 - Effluent Gross	0						=			19 - mg/L 19 - mg/L	
Chlorine, total residual	1 - Effluent Gross	0		Permit Req.				=		0.1 DAILY MX		
,				Permit Req. Value NODI					Req Mon MO AVG <=	0.1 DAILY MX 716.0	19 - mg/L 0	01/BA - Once Per Batch GR - GRAB
Chlorine, total residual Solids, total dissolved	1 - Effluent Gross 1 - Effluent Gross			Permit Req. Value NODI Sample					Req Mon MO AVG <= 708.0 =	0.1 DAILY MX	19 - mg/L 0	01/BA - Once Per Batch GR - GRAB 02/BA - Twice Per Batch GR - GRAB
,				Permit Req. Value NODI Sample Permit Req.					Req Mon MO AVG <= 708.0 =	0.1 DAILY MX 716.0 Req Mon DAILY MX	19 - mg/L 19 - mg/L 19 - mg/L 0	01/BA - Once Per Batch GR - GRAB 02/BA - Twice Per Batch GR - GRAB
Solids, total dissolved	1 - Effluent Gross	0		Permit Req. Value NODI Sample Permit Req. Value NODI				=	Req Mon MO AVG <= 708.0 Req Mon MO AVG	0.1 DAILY MX 716.0 Req Mon DAILY MX	19 - mg/L 19 - mg/L 19 - mg/L 0	01/BA - Once Per Batch GR - GRAB 02/BA - Twice Per Batch GR - GRAB 02/BA - Twice Per Batch GR - GRAB
,		0		Permit Req. Value NODI Sample Permit Req. Value NODI Sample				=	Req Mon MO AVG <= 708.0 Req Mon MO AVG	0.1 DAILY MX 716.0 Req Mon DAILY MX	19 - mg/L 19 - mg/L 19 - mg/L 0	01/BA - Once Per Batch GR - GRAB 02/BA - Twice Per Batch GR - GRAB 02/BA - Twice Per Batch GR - GRAB 01/BA - Once Per Batch GR - GRAB
Solids, total dissolved	1 - Effluent Gross	0		Permit Req. Value NODI Sample Permit Req. Value NODI Sample Permit Req.				=	Req Mon MO AVG <= 708.0 Req Mon MO AVG	0.1 DAILY MX 716.0 Req Mon DAILY MX	19 - mg/L 19 - mg/L 19 - mg/L 0	01/BA - Once Per Batch GR - GRAB 02/BA - Twice Per Batch GR - GRAB 02/BA - Twice Per Batch GR - GRAB 01/BA - Once Per Batch GR - GRAB
Solids, total dissolved	1 - Effluent Gross	0		Permit Req. Value NODI Sample Permit Req. Value NODI Sample Permit Req. Value NODI				= = <=	Req Mon MO AVG <= 708.0 = Req Mon MO AVG 1.2 = 50.0 MO AVG	0.1 DAILY MX 716.0 Req Mon DAILY MX 1.2 Req Mon DAILY MX	19 - mg/L 19 - mg/L 19 - mg/L 0 3M - ng/L 3M - ng/L	01/BA - Once Per Batch GR - GRAB 02/BA - Twice Per Batch GR - GRAB 02/BA - Twice Per Batch GR - GRAB 01/BA - Once Per Batch GR - GRAB 01/BA - Once Per Batch GR - GRAB
	Cobalt, total recoverable Selenium, total recoverable Iron, total [as Fe] Aluminum, total [as Al] Vanadium, total recoverable Nitrogen, ammonia, total [as NH3] Flow, in conduit or thru treatment plant	Selenium, total recoverable 1 - Effluent Gross Iron, total [as Fe] 1 - Effluent Gross Aluminum, total [as Al] 1 - Effluent Gross Vanadium, total recoverable 1 - Effluent Gross 1 - Effluent Gross Nitrogen, ammonia, total [as NH3] 1 - Effluent Gross	Selenium, total recoverable 1 - Effluent Gross 0 Iron, total [as Fe] 1 - Effluent Gross 0 Aluminum, total [as Al] 1 - Effluent Gross 0 Vanadium, total recoverable 1 - Effluent Gross 0 Nitrogen, ammonia, total [as NH3] 1 - Effluent Gross 0	Selenium, total recoverable 1 - Effluent Gross 0 Iron, total [as Fe] 1 - Effluent Gross 0 Aluminum, total [as Al] 1 - Effluent Gross 0 Vanadium, total recoverable 1 - Effluent Gross 0 Nitrogen, ammonia, total [as NH3] 1 - Effluent Gross 0	Cobalt, total recoverable 1 - Effluent Gross 0 Permit Req. Value NODI Sample Permit Req. Value NODI Iron, total [as Fe] 1 - Effluent Gross 0 Sample Permit Req. Value NODI Aluminum, total [as Al] 1 - Effluent Gross 0 Sample Permit Req. Value NODI Sample Permit Req. Value NODI Sample Permit Req. Value NODI Vanadium, total recoverable 1 - Effluent Gross 0 Sample Permit Req. Value NODI Nitrogen, ammonia, total [as NH3] 1 - Effluent Gross 0 Sample Permit Req. Value NODI Flow, in conduit or thru treatment plant 1 - Effluent Gross 0 Value NODI	Cobalt, total recoverable 1 - Effluent Gross 0 Permit Req. Value NODI Sample Permit Req. Value NODI Iron, total [as Fe] 1 - Effluent Gross 0 Permit Req. Value NODI Aluminum, total [as Al] 1 - Effluent Gross 0 Permit Req. Value NODI Sample Permit Req. Value NODI Vanadium, total recoverable 1 - Effluent Gross 0 Permit Req. Value NODI Vanadium, total recoverable 1 - Effluent Gross 0 Permit Req. Value NODI Nitrogen, ammonia, total [as NH3] 1 - Effluent Gross 0 Permit Req. Value NODI Sample Permit Req. Value NODI 1 - Effluent Gross 0 Permit Req. Value NODI Sample Permit Req. Value NODI Sample Permit Req. Value NODI	Cobalt, total recoverable 1 - Effluent Gross 0 Permit Req. Value NODI Sample Permit Req. Value NODI Iron, total [as Fe] 1 - Effluent Gross 0 Permit Req. Value NODI Iron, total [as Fe] 1 - Effluent Gross 0 Permit Req. Value NODI Aluminum, total [as Al] 1 - Effluent Gross 0 Permit Req. Value NODI Vanadium, total recoverable 1 - Effluent Gross 0 Permit Req. Value NODI Vanadium, total recoverable 1 - Effluent Gross 0 Permit Req. Value NODI Nitrogen, ammonia, total [as NH3] 1 - Effluent Gross 0 Permit Req. Value NODI Sample Permit Req. Value NODI Sample Permit Req. Value NODI Nitrogen, ammonia, total [as NH3] 1 - Effluent Gross 0 Permit Req. Value NODI Sample Permit Req. Value NODI Flow, in conduit or thru treatment plant 1 - Effluent Gross 0 Permit Req. Value NODI	Cobalt, total recoverable 1 - Effluent Gross 0 Permit Req. Value NODI Selenium, total recoverable 1 - Effluent Gross 0 Permit Req. Value NODI Iron, total [as Fe] 1 - Effluent Gross 0 Permit Req. Value NODI Aluminum, total [as Al] 1 - Effluent Gross 0 Permit Req. Value NODI Aluminum, total [as Al] 1 - Effluent Gross 0 Permit Req. Value NODI Vanadium, total recoverable 1 - Effluent Gross 0 Permit Req. Value NODI Nitrogen, ammonia, total [as NH3] 1 - Effluent Gross 0 Permit Req. Value NODI Nitrogen, ammonia, total [as NH3] 1 - Effluent Gross 0 Permit Req. Value NODI Nitrogen, ammonia, total [as NH3] 1 - Effluent Gross 0 Permit Req. Value NODI Nitrogen, ammonia, total [as NH3] 1 - Effluent Gross 0 Permit Req. Value NODI Sample Permit Req. Value NODI Nitrogen, ammonia, total [as NH3] 1 - Effluent Gross 0 Permit Req. Value NODI Sample Permit Req. Value NODI Nitrogen, ammonia, total [as NH3] 1 - Effluent Gross 0 Permit Req. Value NODI Sample Permit Req. Value NODI Nitrogen, ammonia, total [as NH3] 1 - Effluent Gross 0 Permit Req. Value NODI	Cobalt, total recoverable 1 - Effluent Gross 0 Permit Req. Value NODI Selenium, total recoverable 1 - Effluent Gross 0 Permit Req. Value NODI Iron, total [as Fe] 1 - Effluent Gross 0 Permit Req. Value NODI Aluminum, total [as Al] 1 - Effluent Gross 0 Permit Req. Value NODI Aluminum, total [as Al] 1 - Effluent Gross 0 Permit Req. Value NODI Vanadium, total recoverable 1 - Effluent Gross 0 Permit Req. Value NODI Vanadium, total recoverable 1 - Effluent Gross 0 Permit Req. Value NODI Nitrogen, ammonia, total [as NH3] 1 - Effluent Gross 0 Permit Req. Value NODI Nitrogen, ammonia, total [as NH3] 1 - Effluent Gross 0 Permit Req. Value NODI Sample Sample	Cobalt, total recoverable	Cobalt, total recoverable	Cobalt, total recoverable 1 - Effluent Gross 2

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

As required in Title 6 of the New York State Codes, Rules, and Regulations 6NYCRR, Part 750-2(e)(3), the New York Environmental Laboratory Accreditation Program (NYELAP) identification numbers for Laboratories performing analysis for the WVDP DMR's are as follows: 1) TestAmerica: NY Lab No. 10026; and 2) General Engineering Laboratory: NY Lab No. 11501. Also, NYCRR Part 750-2(e)(3) requires reporting of Method Detection Limits (MDLs) where monitoring is not performed under ELAP. To that end, the MDL for Total Residual Chlorine analysis, performed by CHBWV Environmental Services is 0.02 mg/L.

Attachments

No attachments.

Report Last Saved By U.S. DEPT OF ENERGY

User: william.kean@chbwv.com

Name: William Kean

E-Mail: william.kean@chbwv.com

Date/Time: 2023-06-14 06:15 (Time Zone: -04:00)

Report Last Signed By

User: ELIZABETH.LOWES@CHBWV.COM

Name: Elizabeth Lowes

E-Mail: elizabeth.lowes@chbwv.com

Date/Time: 2023-06-14 12:26 (Time Zone: -04:00)

Permit

Permit #: NY0000973

Permittee: U.S. DEPT OF ENERGY

Major: Yes

Permittee Address: 1000 INDEPENDENCE AVE SW

WASHINGTON, DC 20585

Permitted Feature: 007

External Outfall

007-M

007-M SANITARY, NC COOLING WATER, UTILITY WASTEWATER, STORMWATER

Report Dates & Status

Monitoring Period: From 05/01/23 to 05/31/23

DMR Due Date: 06/28/23

Discharge:

Title:

Status:

Facility:

Facility Location:

NetDMR Validated

WEST VALLEY DEMONSTRATION PROJ

10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799

Principal Executive Officer

First Name: Bryan C.

Considerations for Form Completion

Bower

Director, USDOE-WVDP

Telephone:

716-942-4368

No Data Indicator (NODI)

Form NODI:

Last Name:

	Parameter	Monitoring Location	Season	# Param. NODI	I		Qu	antity or Load	ling				Q	uality or Concentrati	ion		# 0	f Ex. Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier	2 Value 2	Qualifier	3 Value 3	Units		
					Sample														
00181	Oxygen demand, ultimate	1 - Effluent Gross	0		Permit Req.									Req Mon MO AVG		22.0 DAILY MX	19 - mg/L	01/30 - Monthly	CA - CALCTD
					Value NODI									C - No Discharge		C - No Discharge			
					Sample														
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0		Permit Req.						>=	3.0 MINIMUM				Req Mon MAXIMUM	19 - mg/L	02/30 - Twice Per Month	GR - GRAB
					Value NODI							C - No Discharge	9			C - No Discharge			
					Sample														
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0		Permit Req.									Req Mon MO AVG			19 - mg/L	02/30 - Twice Per Month	1 24 - COMP24
					Value NODI									C - No Discharge		C - No Discharge			
					Sample														
00400	pH	1 - Effluent Gross	0		Permit Req.						>=	6.5 MINIMUM			<=	8.5 MAXIMUM	12 - SU	02/30 - Twice Per Month	GR - GRAB
					Value NODI							C - No Discharge	•			C - No Discharge			
					Sample														
00530	Solids, total suspended	1 - Effluent Gross	0		Permit Req.								<=	30.0 MO AVG	<=	45.0 DAILY MX	19 - mg/L	02/30 - Twice Per Month	24 - COMP24
					Value NODI									C - No Discharge		C - No Discharge			
					Sample														
00545	Solids, settleable	1 - Effluent Gross	0		Permit Req.									Req Mon MO AVG	<=	0.3 DAILY MX	25 - mL/L	02/30 - Twice Per Month	GR - GRAB
					Value NODI									C - No Discharge		C - No Discharge			
					Sample														
00556	Oil & Grease	1 - Effluent Gross	0		Permit Req.									Req Mon MO AVG	<=	15.0 DAILY MX	19 - mg/L	02/30 - Twice Per Month	GR - GRAB
					Value NODI									C - No Discharge		C - No Discharge			
					Sample														
00615	Nitrogen, nitrite total [as N]	1 - Effluent Gross	0		Permit Req.									Req Mon MO AVG			19 - mg/L	01/30 - Monthly	24 - COMP24
					Value NODI									C - No Discharge		C - No Discharge			
					Sample														
00625	Nitrogen, Kjeldahl, total [as N]	1 - Effluent Gross	0		Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L	01/30 - Monthly	24 - COMP24
					Value NODI									C - No Discharge		C - No Discharge			
					Sample														
01045	Iron, total [as Fe]	1 - Effluent Gross	0		Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L	02/30 - Twice Per Month	1 24 - COMP24
					Value NODI									C - No Discharge		C - No Discharge			
					Sample														
34726	Nitrogen, ammonia, total [as NH3]	1 - Effluent Gross	0		Permit Req.								<=	1.49 MO AVG	<=	2.1 DAILY MX	19 - mg/L	02/30 - Twice Per Month	24 - COMP24
					Value NODI									C - No Discharge		C - No Discharge			
					Sample														
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0		Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD)							01/30 - Monthly	CN - CONTIN
					Value NODI		C - No Discharge		C - No Discharge										
					Sample														
50060	Chlorine, total residual	1 - Effluent Gross	0		Permit Req.									Req Mon MO AVG	<=		19 - mg/L	01/30 - Monthly	GR - GRAB
					Value NODI									C - No Discharge		C - No Discharge			

70295 Solids, total dissolved	1 - Effluent Gross	0	 Sample Permit Req. Value NODI				Req Mon MO AVG C - No Discharge		Req Mon DAILY MX C - No Discharge		02/30 - Twice Per Month	GR - GRAB
71900 Mercury, total [as Hg]	1 - Effluent Gross	0	 Sample Permit Req. Value NODI				Req Mon MO AVG C - No Discharge	<=	50.0 DAILY MX C - No Discharge	3M - ng/L	01/30 - Monthly	GR - GRAB

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

U.S. DEPT OF ENERGY

User: william.kean@chbwv.com

Name: William Kean

E-Mail: william.kean@chbwv.com

Date/Time: 2023-06-14 06:15 (Time Zone: -04:00)

Report Last Signed By

User: ELIZABETH.LOWES@CHBWV.COM

Name: Elizabeth Lowes

E-Mail: elizabeth.lowes@chbwv.com

Date/Time: 2023-06-14 12:26 (Time Zone: -04:00)

Permit U.S. DEPT OF ENERGY Facility: WEST VALLEY DEMONSTRATION PROJ Permit #: NY0000973 Permittee: **Facility Location:** Major: Yes **Permittee Address:** 1000 INDEPENDENCE AVE SW 10282 ROCK SPRINGS ROAD WASHINGTON, DC 20585 WEST VALLEY, NY 14171-9799 01B Discharge: 01B-M **Permitted Feature:** Internal Outfall MERCURY PRETREATMENT Report Dates & Status **Monitoring Period:** From 05/01/23 to 05/31/23 **DMR Due Date:** 06/28/23 Status: **NetDMR Validated Considerations for Form Completion** Principal Executive Officer First Name: Bryan C. Title: Director, USDOE-WVDP Telephone: 716-942-4368 Last Name: Bower No Data Indicator (NODI) Form NODI: Monitoring Location Season # Param. NODI # of Ex. Frequency of Analysis Sample Type **Quantity or Loading Quality or Concentration** Value 1 Qualifier 2 Value 2 Units Qualifier 1 Value 1 Qualifier 2 Qualifier 3 Code Name Qualifier 1 Sample Reg Mon MO AVG Req Mon DAILY MX 07 - gal/d CN - CONTIN 01/07 - Weekly Permit Req. 00056 Flow rate 1 - Effluent Gross 0 Value NODI C - No Discharge C - No Discharge Sample Permit Reg. Reg Mon MO AVG <= 50.0 DAILY MX 3M - ng/L 02/BA - Twice Per Batch GR - GRAB 71900 Mercury, total [as Hg] 1 - Effluent Gross 0 Value NODI C - No Discharge C - No Discharge **Submission Note** If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type. **Edit Check Errors** No errors. **Comments** Attachments No attachments. Report Last Saved By U.S. DEPT OF ENERGY User: william.kean@chbwv.com Name: William Kean E-Mail: william.kean@chbwv.com Date/Time: 2023-06-14 06:15 (Time Zone: -04:00) Report Last Signed By User: ELIZABETH.LOWES@CHBWV.COM Name: Elizabeth Lowes E-Mail: elizabeth.lowes@chbwv.com Date/Time: 2023-06-14 12:26 (Time Zone: -04:00)

Permit Permit #:

NY0000973

Yes

Bower

Permittee: U.S. DEPT OF ENERGY

Major:

Permittee Address: 1000 INDEPENDENCE AVE SW

WASHINGTON, DC 20585

Facility Location:

Facility:

WEST VALLEY DEMONSTRATION PROJ

10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799

Permitted Feature: 116

Internal Outfall

Discharge: 116-M

Title:

PSEUDO MON. POINT @FRANKS CRK

Report Dates & Status

From 05/01/23 to 05/31/23 **Monitoring Period:**

DMR Due Date: 06/28/23 Status: NetDMR Validated

Considerations for Form Completion

IF PSUEDO MONITORING POINT REPORT IS NOT REQUIRED DURING THE MONITORING PERIOD, EITHER CHECK THENO DISCHARGE BOX OR ENTER 'NODI A'IN PLACE OF A MEASUREMENT TO INDICATE A GENERAL PERMIT EXEMPTION.

Principal Executive Officer

First Name: Bryan C. Director, USDOE-WVDP

Telephone:

716-942-4368

No Data Indicator (NODI)

Last Name:

Form NODI:

Parameter Monitoring Location Season # Param. NODI						ty or Loadir	ng				Quality or Concen	# of Ex.	Frequency of Analysis	Sample Type					
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2 Un	its Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
					Sample							=	304.0	=	307.0	19 - mg/L		02/DS - Twice Per Discharge	CA - CALCTD
70295	Solids, total dissolved	7 - Instream Monitoring	0		Permit Req.								Req Mon MO AVG	<=	500.0 DAILY MX	19 - mg/L	0	02/DS - Twice Per Discharge	CA - CALCTD
. 0200	Jonas, Islandissolved	2 monoan workoning			Value NODI														

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

As required in Title 6 of the New York State Codes, Rules, and Regulations 6NYCRR, Part 750-2(e)(3), the New York Environmental Laboratory Accreditation Program (NYELAP) identification numbers for Laboratories performing analysis for the WVDP DMR's are as follows: 1) TestAmerica: NY Lab No. 10026; and 2) General Engineering Laboratory: NY Lab No. 11501. Also, NYCRR Part 750-2(e)(3) requires reporting of Method Detection Limits (MDLs) where monitoring is not performed under ELAP. To that end, the MDL for Total Residual Chlorine analysis, performed by CHBWV Environmental Services is 0.02 mg/L.

Name	Туре	Size
WVDP_May_2023_TDS_Calcualation.pdf	pdf	351301.0

Report Last Saved By U.S. DEPT OF ENERGY

User: william.kean@chbwv.com

Name: William Kean

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Report Last Signed By

ELIZABETH.LOWES@CHBWV.COM User:

Elizabeth Lowes Name:

E-Mail: elizabeth.lowes@chbwv.com

Date/Time: 2023-06-14 12:26 (Time Zone: -04:00)

User:

Name:

E-Mail:

Date/Time:

Permit U.S. DEPT OF ENERGY Permit #: NY0000973 Permittee: Facility: WEST VALLEY DEMONSTRATION PROJ **Facility Location:** Major: Yes **Permittee Address:** 1000 INDEPENDENCE AVE SW 10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799 WASHINGTON, DC 20585 Discharge: **Permitted Feature:** SUM SUM-N Internal Outfall SUM OF OUTFALLS 1 & 7 Report Dates & Status From 05/01/23 to 05/31/23 **DMR Due Date:** 06/28/23 Status: **NetDMR Validated Monitoring Period: Considerations for Form Completion Principal Executive Officer** Title: Director, USDOE-WVDP Telephone: First Name: Bryan C. 716-942-4368 **Last Name:** Bower No Data Indicator (NODI) Form NODI: Parameter Monitoring Location Season # Param. NODI **Quantity or Loading Quality or Concentration** # of Ex. Frequency of Analysis Sample Type Qualifier 1 Value 1 Qualifier 2 Value 2 Units Qualifier 1 Value 1 Qualifier 2 Name Value 2 Qualifier 3 Value 3 Units Sample 01/30 - Monthly CA - CALCTD 1.0 DAILY MX 19 - mg/L CA - CALCTD Permit Red Req Mon MO AVG <= 01/30 - Monthly 01045 Iron, total [as Fe] 2 - Effluent Net Value NODI **Submission Note** If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type. **Edit Check Errors** No errors. Comments As required in Title 6 of the New York State Codes, Rules, and Regulations 6NYCRR, Part 750-2(e)(3), the New York Environmental Laboratory Accreditation Program (NYELAP) identification numbers for Laboratories performing analysis for the WVDP DMR's are as follows: 1) TestAmerica: NY Lab No. 10026; and 2) General Engineering Laboratory: NY Lab No. 11501. Also, NYCRR Part 750-2(e)(3) requires reporting of Method Detection Limits (MDLs) where monitoring is not performed under ELAP. To that end, the MDL for Total Residual Chlorine analysis, performed by CHBWV Environmental Services is 0.02 mg/L. **Attachments** Size Name Type WVDP_May_2023_Net_Iron_Calculation.pdf pdf 460371.0 Report Last Saved By U.S. DEPT OF ENERGY User: william.kean@chbwv.com Name: William Kean E-Mail: william.kean@chbwv.com Date/Time: 2023-06-14 06:15 (Time Zone: -04:00) Report Last Signed By

ELIZABETH.LOWES@CHBWV.COM

2023-06-14 12:26 (Time Zone: -04:00)

elizabeth.lowes@chbwv.com

Elizabeth Lowes